

ABSTRACT

There are disclosed various embodiments of a balloon dissector and balloon tip cannula assembly which are provided to facilitate forming an anatomical space within the body, such as, for example, an anatomical space in the abdominal cavity or extraperitoneal space for facilitating hernia repair surgeries. The balloon dissector and balloon tip cannula assembly generally includes a balloon tip cannula assembly for anchoring the device to the abdominal wall and a balloon dissector assembly having a dissection balloon at a distal end for separating apart tissue layers and forming an anatomical space. Various structures are provided to connect the balloon dissector assembly to the balloon tip cannula assembly. Obturators associated with the balloon dissector assembly and the balloon tip cannula assembly may also be provided. The balloon dissector and balloon tip cannula assembly may also include a scope support for insertion through the balloon dissector assembly and dissection balloon and for receipt of an endoscope to view the procedure from within the balloon. Various combinations of valve ports and sub-assemblies are disclosed for providing inflation fluid to the balloon tip cannula assembly, insufflation fluid for the abdominal cavity and inflation fluid for the dissection balloon.